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WATER SUPPLY OUTLOOK FOR WASHINGTON



U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

DEPARTMENT OF ECOLOGY STATE OF WASHINGTON

MAY 1, 1978

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Mast af the usable water in western states originates as mauntain snawfall. This snawfall accumulates during the winter and spring, several manths befare the snaw melts and appears as streamflow. Since the runaff fram precipitation as snaw is delayed, estimates af snawmelt runaff can be made well in advance af its accurrence. Streamflaw farecasts published in this report are based principally an measurement af the water equivalent af the mauntain snawpack.

Forecasts became mare accurate as mare af the data affecting runoff are measured. All farecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect an runoff. Early season farecasts are therefore subject to a greater change than those made on later dates.

The snaw course measurement is abtained by sampling snaw depth and water equivalent at surveyed and marked lacatians in mauntain areas. A tatal af about ten samples are taken at each lacatian. The average of these are reparted as snow depth and water equivalent. These measurements are repeated in the same lacatian near the same dates each year.

Snow surveys are made monthly or semi-manthly from January 1 through June 1 in mast states. There are about 1900 snaw courses in Western United States and in the Calumbia Basin in British Calumbia. Networks af automatic snaw water equivalent and related data sensing devices, along with radia telemetry are expanding and will pravide a continuous recard of snow water and other parameters at key locations.

Detailed data an snaw caurse and sail maisture measurements are presented in state and lacal reparts. Other data an reservair storage, summaries of precipitatian, current streamflaw, and sail maisture canditians at valley elevatians are also included. The repart far Western United States presents a broad picture of water supply autlank canditians, including selected streamflaw farecasts, summary of snaw accumulation to date, and starage in larger reservairs.

Snaw survey and sail maisture data far the periad of recard are published by the Sail Canservation Service by states about every five years. Data far the current year is summarized in a West-wide basic data summary and published about Octaber 1 of each year.

COVER PHOTO: SOME OF THE DATA IN THIS REPORT HAVE BEEN RECEIVED THROUGH THE SOIL CONSERVATION SERVICE'S NEW SNOTEL SYSTEM WHICH TRANSMITS INFORMATION VIA THE SPACE AGED METEOR BURST METHOD FROM DATA SITES TO MASTER STATIONS LIKE THESE.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Canservatian Service publishes reports fallowing the principal snaw survey dates fram January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Capies of the reports for Western United States and all state reports may be obtained from Soil Canservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregan 97209.

Capies af state and local reports may also be abtained from state affices of the Sail Canservation Service in the following states:

STATE	ADDRESS
Alaska	Roam 129, 2221 East Narthern Lights Blvd., Anchorage, Alaska 99504
Arizana	Raam 3008, Federal Building, Phoenix, Arizana 85025
Calarada (N. Mex.)	P. O. Bax 17107, Denver, Calarada 80217
Idaha	Raam 345, 304 N. 8th. St., Baise, Idaha 83702
Mantana	P.O. Box 98, Bozeman, Mantana 59715
Nevada	P. O. Box 4850, Rena Nevada 89505
Oregan	1220 S.W. Third Ave., Partland, Oregan 97204
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 841 38
Washington	360 U.S. Caurt Hause, Spakane, Washingtan 99201
Wyaming	P. O. Box 2440, Casper, Wyaming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.



WATER SUPPLY OUTLOOK FOR WASHINGTON

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

R.M. DAVIS

ADMINISTRATOR SOIL CONSERVATION SERVICE WASHINGTON. D C

Released by

GALEN S. BRIDGE

STATE CONSERVATIONIST SOIL CONSERVATION SERVICE SPOKANE, WASHINGTON

In Cooperation with

WILBUR G. HALLAUER

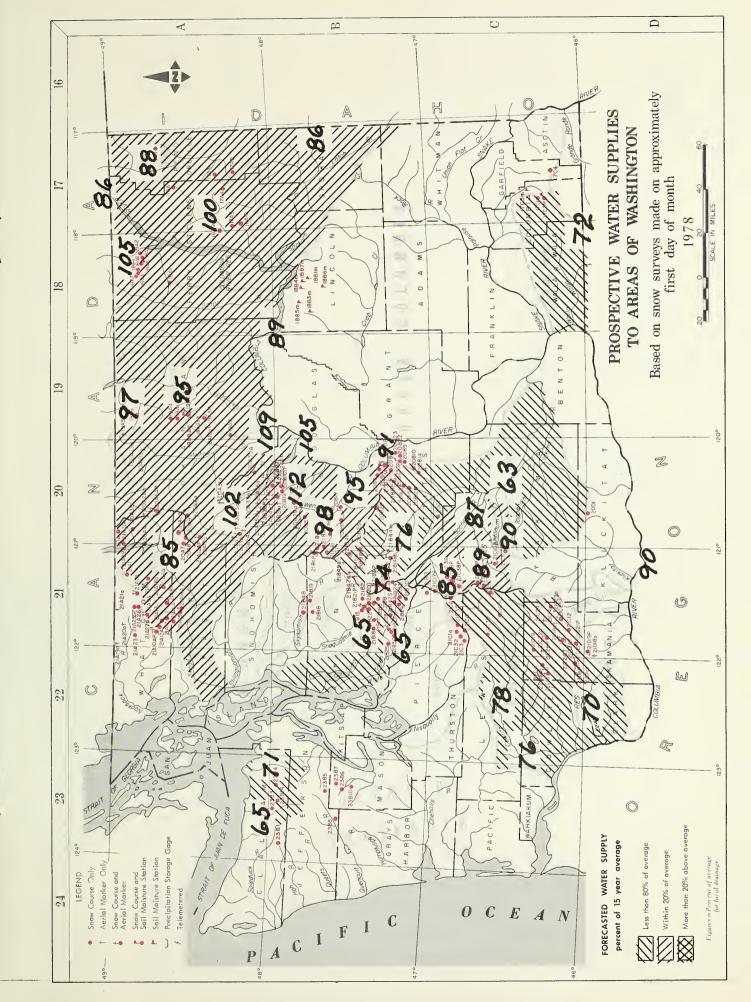
DIRECTOR
DEPARTMENT OF ECOLOGY
STATE OF WASHINGTON

Report prepared by

ROBERT T. DAVIS, Snow Survey Supervisor and NORINE P. KENT, Statistical Assistant

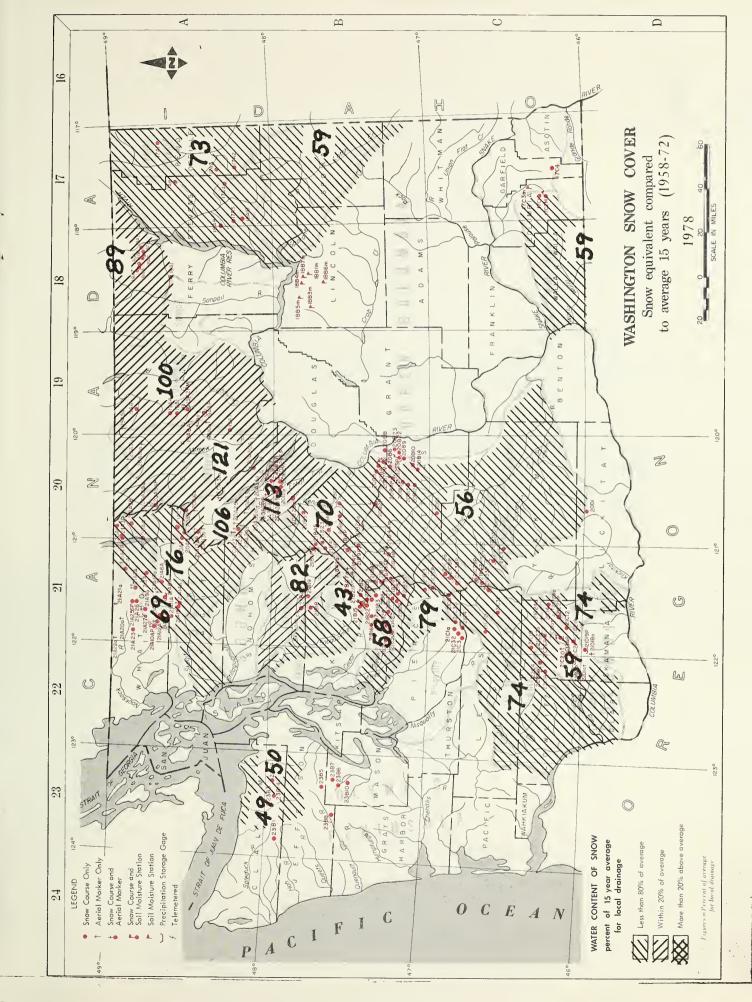
> SOIL CONSERVATION SERVICE 360 U.S. COURTHOUSE SPOKANE, WASHINGTON 99201





INDEX to WASHINGTON SNOW COURSES, SOIL MOISTURE STATIONS and PRECIPITATION STORAGE GAGES

NAME NUMBER SEC. TWP. RANGE ELEV.	Skagir River Skagir River 21A4 35 39N 12E 2200	Baker Pass Baker River 1,11,11,11,11,11,11,11,11,11,11,11,11,1	APIC PENINSULA ngeneșs River 2384 1 28N 5W Morse Creek	Cox Valley	LEGEND NUMBERING SYSTEM CAAMPLE 21A73 ACRIAL MARKER ONLY 21A74 SNOW CORREST AND ACRIAL MARKER 21A74 SNOW CORREST AND ACRIAL MARKER 21A74 SNOW CORREST AND ACRIAL MARKER 21A75 SNOW SOLITING PROPERTY OF THE STATE O
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INDEX to WASHINGTON SNOW COURSES, SOIL MOISTURE STATIONS and PRECIPITATION STORAGE GAGES

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WATER SUPPLY OUTLOOK State of Washington May 1, 1978

The water supply outlook for the northern part of the state, including British Columbia, has improved from that which was reported last month. The percentage improvement ranges from 6 to 10 percent over most of this area. The central and southern portion of the state, from the Wenatchee south, have a water supply outlook that is reduced from that previously reported. This, in spite of generally above normal precipitation which occurred over the state. The snow pack is gone, for all practical purposes, in the low and middle elevations, but the snow courses at the higher elevations reported an increase of snow water equivalent due to this above normal precipitation. Flows of the major streams in the state were above normal with the exception being primarily low elevation watersheds.

SNOW COVER

The snow pack in the Upper Columbia Basin now ranges from 44 percent below average for the Yakima Drainage to 21 percent above normal for the Methow. The Methow Drainage is measured by only one snow course. In the Lower Columbia Drainage, the snow cover ranges from 41 percent below normal for the Lewis and Mill Creek Drainages to 26 percent below for the Cowlitz and White Slamon Drainages. The Puget Sound Drainage snow courses have a snow cover that ranges from 57 percent below normal on the Snoqualmie to 18 percent below in the Skykomish Drainage. The Olympic Peninsula has a snow cover that is 50 percent below normal for the northern slope drainages.

RESERVOIRS

The major irrigation reservoirs are generally in excellent shape. The five reservoirs in the Yakima Basin have water in storage 21 percent greater than normal. These reservoirs are currently 90 percent full. Conconully Reservoir, a small pond above Okanogan, has only 51 percent of average storage as of May 1, and is only 44 percent full. Salmon Lake, in the same area, is 5 percent below normal and 26 percent shy of being full. The power reservoirs generally have excellent amounts of water in storage or good potential for filling with the spring runoff.

PRECIPITATION

As reported by the National Weather Service, precipitation was above normal in all drainage divisions except the northwest slopes of the Cascades. This precipitation regime ranges from 10 percent below normal for the northwest slopes to 150 percent above normal in southeastern Washington. The Bureau of Reclamation reports precipitation at their five reservoirs to be 15 percent above average for this past month.

STREAMFLOW

Flow of the main stem, during the past month, was 16 to 21 percent above normal. Most of the tributary streams in the northern part of the state show above normal runoff while some in the southern area have below normal outflows. Streamflow forecasts, as stated above, have been increased in the northern portion of the state and reduced in the southern portion. These forecasts now range from 35 percent below normal to 10 percent above. Numerical forecasts can be found on the following pages.

STREAMFLOW FORECASTS - MAY 1978

The following summarized runoff forecasts are based principally on mountain snow-cover and on the assumption that precipitation and temperature will be near average from the present time to the end of the forecast period. Appreciable deviations from normal of temperature and/or precipitation will correspondingly modify these forecasts. Streamflow figures for 1977 are preliminary and subject to revision.

		Season	al Streamf	low in	Thousan	ds of Ac	re-Feet
Basin, Stream	Forecast	%	Fore-				15-Yr.
and	Runoff	15-Yr.	cast.				Average
Station	1978	Avg.	period	1977	1976	1975	58-72
	COLU	MBIA BAS	IN				
COLUMBIA RIVER SYSTEM **							
Columbia River	37200	86	May-Sept	29046	50657	39289	43490
at Birchbank $1/$	29800	86	May-July	21302	35698	31132	34632
	21200	86	May-June	15503	22773	20618	24633
Columbia River	55000	89	May-Sept	36444	73149	62331	62110
at Grand Coulee $1/$	45300	88	May-July	27451	54890	51699	51473
	34500	88	May-June	21045	38731	37207	39153
Columbia River	61600	91	May-Sept	38802	78541	68770	67890
bl. Rock Island Dam $1/$	51100	91	May-July	29535	59584	57944	56790
	39300	91	May-June	22883	42213	41976	43202
Columbia River	82500	90	May-Sept		106435	98803	91550
at The Dalles, OR $1/$	68500	89	May-July		83524	84097	76815
	53500	89	May-June		62723	62915	60083
PEND OREILLE RIVER SYSTEM **							
Pend Oreille River	12100	88	May-Sept	4938	15035	15807	13740
bl. Box Canyon	11000	88	May-July	4209	13376	14132	12471
	9300	88	May-June	3713	11084	10676	10561
KETTLE RIVER SYSTEM							
Kettle River	1700	105	May-Sept	973	2197	1747	1614
nr. Laurier	1600	104	May-July	932	1875	1665	1534
	1440	104	May-June	865	1589	1479	1381
Colville River	100	110	May-Sept		82	175	91
at Kettle Falls	85	106	May-July		66	153	80
	7 5	106	May-June		58	137	71

Observed flow corrected for storage in any of the following reservoirs which are above the station: Kootenay Lake, Hungry Horse, Flathead Lake, Pend Oreille Lake, F. D. Roosevelt Lake, Lake Chelan, Coeur d'Alene Lake, Brownlee, Noxon Reservoir and pumpage at F. D. Roosevelt Lake.

^{**} Forecasts made by National Weather Service, River Forecast Center, Portland, OR

			al Streamf	low in '	Thousand	s o Ac	
Basin, Stream	Forecast	% 3.E. 37	Fore-				15-Yr.
and	Runoff	15-Yr.	cast	1077	1076	1675	Average
Station	1978	Avg.	period	1977	1976	1975	58-72
SPOKANE RIVER SYSTEM *							
Spokane River	1750	86	May-Sept	687	2223	2842	2010
at Post Falls, ID 2/	1650	86	May-July	735	2077	2699	1926
_	1550	86	May-June	581	1892	2457	1800
OKANOGAN RIVER SYSTEM **							
Similkameen River	1380	97	May-Sept	558	1859	1398	1425
nr. Nighthawk	1290	97	May-July	517	1635	1303	1333
	1100	97	May-June	460	1262	1057	1131
	1100						
Okanogan River	1510	95	May-Sept	617	2055	1464	1587
nr. Tonasket	1360	94	May-July	553	1706	1319	1446
	1150	95	May-June	592	2152	1063	1213
METHOW RIVER SYSTEM **							
Methow River	1030	109	May-Sept		1121	942	946
nr. Pateros	950	108	May-July		963	862	879
	800	107	May-June		718	678	748
CHELAN RIVER SYSTEM							
Chelan River	1200	105	May-Sept	510	1365	1289	1139
at Chelan 3/	1050	105	May-July	392	1083	1136	999
naomi	800	104	May-June	314	735	784	767
Stehekin River	850	102	May-Sept	422	960	885	830
at Stehekin	720	102	May-July	310	737	758	702
	530	101	May-June	239	473	488	526
Entiat	250	112	May-Sept		290	258	223
nr. Ardenvoir	225	110	May-July		247	233	204
	180	109	May-June		170	172	165
WENATCHEE RIVER SYSTEM							
Wenatchee River	1150	98	May-Sept	506	1394	1316	1165
at Plain	1020	98	May-July	414	1148	1182	1040
	7 80	96	May-June	352	776	844	809
Wenatchee River	1500	95	May-Sept	673	1903	1805	1583
at Peshastin	1340	94	May-July	564	1576	1623	1426
	1040	93	May-June	487	1067	1164	1121
Stemilt Basin	130#	94					
nr. Wenatchee	130π	74	May-Sept		144#	134#	138#
Icicle Creek	360	97	Apr-Cont				371
	330	96	Apr-Sept Apr-July				342
nr. Leavenworth	270	97	Apr-July Apr-June				279
			Apr-June				219

[#] Forecast in Thousands of Miners' Inches

^{*} Forecasts made by Jack A. Wilson, Soil Conservation Service, Boise, Idaho

^{**} Forecasts made by National Weather Service, River Forecast Center, Portland, Oregon

^{2/} Observed flow corrected for storage in Coeur d'Alene Lake and diversions by Spokane Valley Farms Company and Rathdrum Prairie Canals.

^{3/} Observed flow corrected for storage in Lake Chelan.

		Season	al Streamf	low in '	Thousand	s of Ac	re-Feet
Basin, Stream	Forecast	8	Fore-				15-Yr.
and	Runoff	15-Yr.	cast				Average
Station	1978	Avg.	period	1977	1976	1975	58-72
YAKIMA RIVER SYSTEM	0.5			5 0	7.00	156	
Yakima River	85	74	May-Sept	52	136	156	115
nr. Martin $4/$	7 5	72	May-July	42	120	142	104
	65	73	May-June	40	96	115	89
Yakima River	600	76	May-Sept		929	1020	794
at Cle Elum 5/	540	76	May-July		817	920	706
_	450	76	May-June		645	750	593
	1100	6.0		F06	0116	0.004	1851
Yakima River	1100	63	May-Sept	596	2116	2324	1751
nr. Parker $\underline{6}/$	1000	65	May-July	451	1800	2081	1550
	830	62	May-June	405	1404	1736	1329
Kachess River	65	65	May-Sept	39	120	141	100
nr. Easton 7/	60	65	May-July	34	109	132	93
_	55	68	May-June	32	87	107	81
Gla Blow Biran	220	0.0	Mars Camb	1.00	FOC	F.0.C	410
Cle Elum River	330	80	May-Sept	182	506	506	410
nr. Roslyn <u>8</u> /	300	81	May-July	145	429	459	371
	250	82	May-June	126	314	355	306
Bumping River	110	85	May-Sept	52	163	172	129
nr. Nile 9/	100	85	May-July	46	140	155	118
_	80	83	May-June	42	97	112	96
Description Discour	0.5	0.5	Mary Comb		100	1.41	110
American River	95	85 05	May-Sept		120	141 129	112 103
nr. Nile	88	85	May-July		103		
	70	82	May-June		73	96	85
Tieton River	190	89	May-Sept	104	267	277	214
at Tieton Dam 10/	160	90	May-July	74	208	232	178
	125	90	May-June	58	145	166	139
Na slage Då sage	650	07	Mass Camb		000	050	740
Naches River	650 560	87	May-Sept May-July		908 7 70	959 856	748 669
nr. Naches <u>11</u> /		83	May-July May-June				
	470	84	may-June		579	666	557
Ahtanum Creek	35	90	May-Sept		43	50	39
nr. Tampico $12/$	32	91	May-July		37	44	35
	28	93	May-June		29	37	30

^{4/} Observed flow corrected for storage in Lake Keechelus.

^{5/} Observed flow corrected for storage in Keechelus, Kachess and Cle Elum Lakes and diversion by Kittitas Canal.

^{6/} Observed flow corrected for storage in Keechelus, Kachess, Cle Elum, Bumping and Rimrock Lakes and diversions by Roza, Union Gap, New Reservation, Old Reservation and Sunnyside Canals.

^{7/} Observed flow corrected for storage in Lake Kachess.

^{8/} Observed flow corrected for storage in Lake Cle Elum.

^{9/} Observed flow corrected for storage in Bumping Lake.

^{10/} Observed flow corrected for storage in Rimrock Lake.

^{11/} Observed flow corrected for storage in Bumping and Rimrock Lakes and diversions by Tieton, Selah Valley, Wapatox Canals and City of Yakima.

^{12/} Observed flow of North and South Forks (Combined).

		Season	al Streamfl	ow in Th	nousands	of Acre	e-Feet
Basin, Stream	Forecast	ક	Fore-				15-Yr.
and	Runoff	15-Yr.	cast				Average
Station	1978	Avg.	period	1977	1976	1975	58-72
LOWER COLUMBIA RIVER SYSTEM							
Mill Creek					·		
nr. Walla Walla	13	72	May-Sept		25	30	18
	10	21	May-July		16	25	14
	9	75	May-June		19	21	12
Lewis River	650	70	May-Sept	7 50	957	969	933
at Ariel 13/	510	67	May-July	550	801	804	765
	440	68	May-June	480	662	666	643
Cowlitz River **	1290	78	May-Sept		1881	1894	1650
Bl. Mayfield Dam	1090	78	May-July		1548	1619	1391
-	900	80	May-June		1169	1218	1123
Cowlitz River **	1600	76	May-Sept	1618	2302	2314	2108
at Castle Rock 14/	1330	76	May-July	1224	1872	1946	1741
	1080	77	May-June	1049	1442	1484	1407
DUNGENESS RIVER SYSTEM Dungeness River nr. Sequim	OLYMP: 105 85 60	71 71 71 71	May-Sept May-July May-June		143 110 74	139 108 72	147 119 85
	PUC	GET SOUN	<u>D</u>				
SKAGIT RIVER SYSTEM							
Skagit River at Newhalem 15/	1730	85	May-Aug		2522	2123	2037
CEDAR RIVER SYSTEM							
Cedar River at Cedar Falls	60	65	Apr-Sept		91	101	91
GREEN RIVER SYSTEM							
Green River	145	65	May-Sept		228	293	220
bl. Howard Hanson Dam 16/							
ELWHA RIVER SYSTEM							
Elwha River	300	65	May-Sept		551	501	465
nr. Port Angeles	240	63	May-July		430	391	375

^{**} Forecasts made by National Weather Service, River Forecast Center, Portland, Oregon 13/ Observed flow corrected for storage in Lake Merwin, Yale and Swift Reservoirs.

^{14/} Observed flow corrected for storage in Mayfield Reservoir.

^{15/} Observed flow corrected for storage in Diablo, Ross and Gorge Reservoirs.

^{16/} Observed flow corrected for storage in Howard Hanson Dam.

COMPARISON OF SNOW COVER WITH THAT OF PREVIOUS YEARS

The following tabulation of Washington stream basins presents the water content of the snow about May 1, 1978 as percent of the same date in 1977 and 1976 and average of record.

	ow Water E			
Tributary Basin	Courses		s percent	
	Average	1977	1976	1958-72 Avg
	HPPER COL	LUMBIA BASIN		
	<u> </u>	JOHDIN BROIN		
Pend Oreille	15	376	75	73
Kettle	12	408	68	89
Spokane	7	256	59	59
Okanogan	35	432	114	100
Methow	1	257	251	121
Chelan	1	215	78	106
Entiat	10	705	87	113
Wenatchee	6	278	48	7 0
Yakima	13	188	53	56
	T OF THE CO.	TIMBER BROWN		
	LOWER COI	LUMBIA BASIN		
Mill Creek	1	_	33	59
White Salmon	2	242	68	74
Lewis	11	182	51	59
Cowlitz	3	181	70	74
	PUGET	r SOUND		
White	3	221	71	79
Green	2	278	64	58
Snoqualmie	1	131	37	43
Skykomish	2	266	66	82
Skagit	10	231	52	76
Baker	8	147	56	69
Nooksack	1	126	46	-
	OLYMPIC	PENINSULA		
Morse Creek	1	185	53	_
Elwha	1	155	39	49
Dungeness	1	156	- -	50
Duligelless	1	130	_	30

RESERVOIR STORAGE - 1000 Acre Feet

BASIN OR		USABLE 1/		Measu	red May 1	······································
STREAM	RESERVOIR	CAPACITY	1978	1977	1976	Normal*
		COLUMBIA	<u>A</u>			
Spokane	Coeur d'Alene Lake	225.1	202.4	179.3	236.7	253.2
Columbia	Franklin D. Roosevelt Lake	5232.0	860.4	1688.2	659.3	1654.6
Columbia	Banks Lake	714.9	505.0	464.3	597.3	457.7
Okanogan	Conconully Reservoir	13.0	5.7	7.4	11.3	11.2
Okanogan	Salmon Lake	10.5	7.4	9.3	9.8	7.8
Chelan	Lake Chelan	676.1	242.2	268.8	367.3	225.1
		YAKIMA				
Yakima	Keechelus Lake	157.8	150.4	118.5	104.5	121.2
Kachess	Kachess Lake	239.0	237.2	234.2	218.5	199.2
Cle Elum	Lake Cle Elum	436.9	373.5	441.3	307.3	310.9
Bumping	Bumping Lake	33.7	32.4	26.2	8.0	16.1
Tieton	Rimrock Lake	198.0	170.6	154.6	141.2	146.9
		PUGET SOUNI	<u>0</u>			
Skagit	Ross Reservoir	1404.1	793.0	539.5	743.0	751.2
Skagit	Diablo Reservoir	90.6	83.3	86.8	87.1	85.7
Skagit	Gorge Reservoir	9.8	7.8	7.1	8.4	-

^{1/} Based on Active Storage

^{* 15-}year average 1958-72

SOIL MOISTURE - May

							
Drainage Basin			Profile	Inches	Soil M	Moisture	Content
and				Total	Inches	as of	May 1
Station	Number	Elev.	Depth	Capacity	1978	1977	1976
OKANOGAN							
Salmon Meadows	19A2M	4500	48	5.4	-	3.8	4.3
Trout Creek	3-M	3600	48	7.3	-	-	4.9*
YAKIMA							
Domery Flat	21B20m	2200	48	6.9	-	-	-
Lake Cle Elum	21B14M	2200	48	12.8	-	-	-
WALLA WALLA							
Couse	17C3m	3650	48	11.1	9.1	6.4	-
Helmers	17C2M	4400	48	12.0	9.4	10.1	-
WENATCHEE							
Upper Wheeler	20B7M	4400	48	12.7	12.6	8.0	15.2

FALL SOIL MOISTURE

Drainage Basin			Profile	Inches	Soil I	Moisture	Content
and				Total	(Inch	es) as o	f Oct. 1
Station	Number	Elev.	Depth	Capacity	1977	1976	1975_
OKANOGAN							
Salmon Meadows	19A02M	4500	48	5.4	-	3.4	3.2
Trout Creek	3-M	3600	48	7.3	3.2	3.4	3.1
YAKIMA							
Domery Flat	21B20m	2200	48	6.9	_	-	-
Lake Cle Elum	21B14M	2200	48	12.8	-	-	-
WALLA WALLA							
Couse	17C3m	3650	48	11.1	-	-	7.3
Helmers	17C2M	4400	48	12.0	-	-	6.5
WENATCHEE							
Upper Wheeler	20B7M	4400	48	12.7	6.6	-	8.6

 $\begin{array}{c} {\tt PRECIPITATION} \ \underline{1}/ \\ \\ {\tt Division} \ {\tt Average} \ {\tt Observations} \ {\tt and} \ {\tt Departures} \end{array}$

	FA			TER	SPRING				
Drainage	Sept-Oct	1977 <u>2</u> /		-Mar1978	April				
Divisions	Observed	Departure	Observed	Departure	Observed	Departure			
Columbia in Canada	3.41	-1.61	13.30	-2.21	2.04	+0.33			
Pend Oreille - Spokane	4.10	+0.06	17.28	-0.27	2.57	+0.75			
Northeastern Washington	2.06	-0.41	10.62	+1.22	1.72	+0.46			
Southeastern Washington	2.51	0.0	11.25	+0.82	3.83	+2.30			
Central Washington	1.08	+0.11	7.55	+2.27	1.29	+0.64			
North Central Washington	n 1.39	-0.21	8.13	+1.59	1.91	+1.06			
Northwest Slope Cascades	s 11.16	-2.05	52.34	-3.05	6.00	-0.64			
Southwest Slope Cascades	9.42	+0.74	40.82	-0.82	5.85	+0.85			
Northeastern Washington			Spokane, Co Drainages.	lville, Sanp	oil and Lo	ower			
Southeastern Washington		- Touche	t, Tucannon	and Palouse	Drainages	S.			
Central Washington		- Yakima, Wenatchee and Chelan Drainages.							
North Central Washington	n	- Methow and Okanogan Drainages.							
Northwest Slope Cascades	5	- Puget	Sound Drain	ages.					
Southwest Slope Cascades	5	- Lower	Columbia Dr	ainages.					

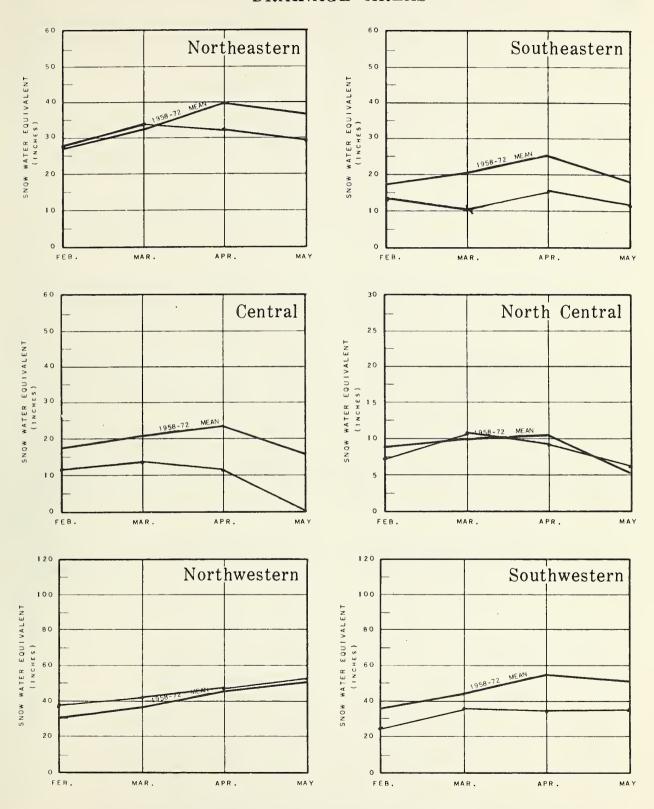
^{1/ -} Preliminary analysis by National Weather Service from data furnished by Meteorlogical Services of Canada and the National Weather Service.

^{2/ -} Departure from 15-year (1958-72) drainage division average.

WASHINGTON SNOW COVER

1978

DRAINAGE AREAS

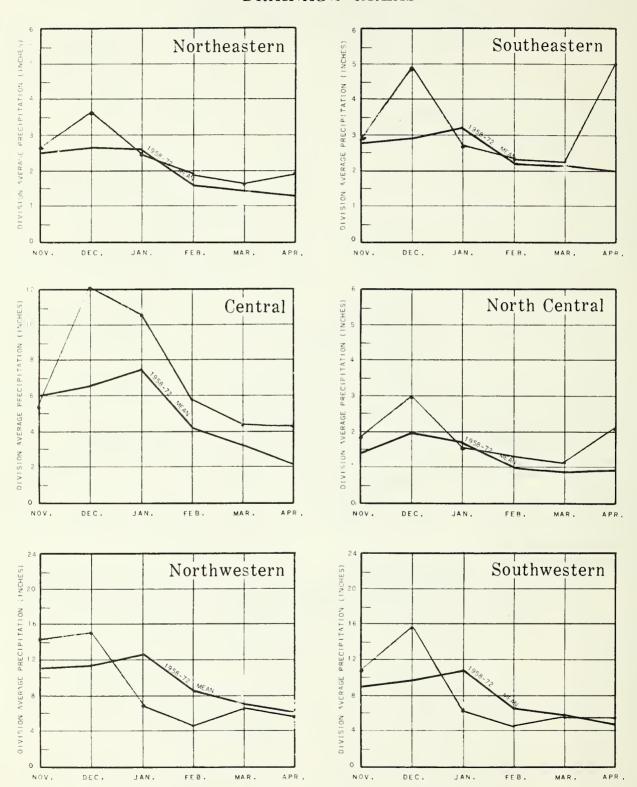


Selected Snow Survey Courses by Soil Conservation Service

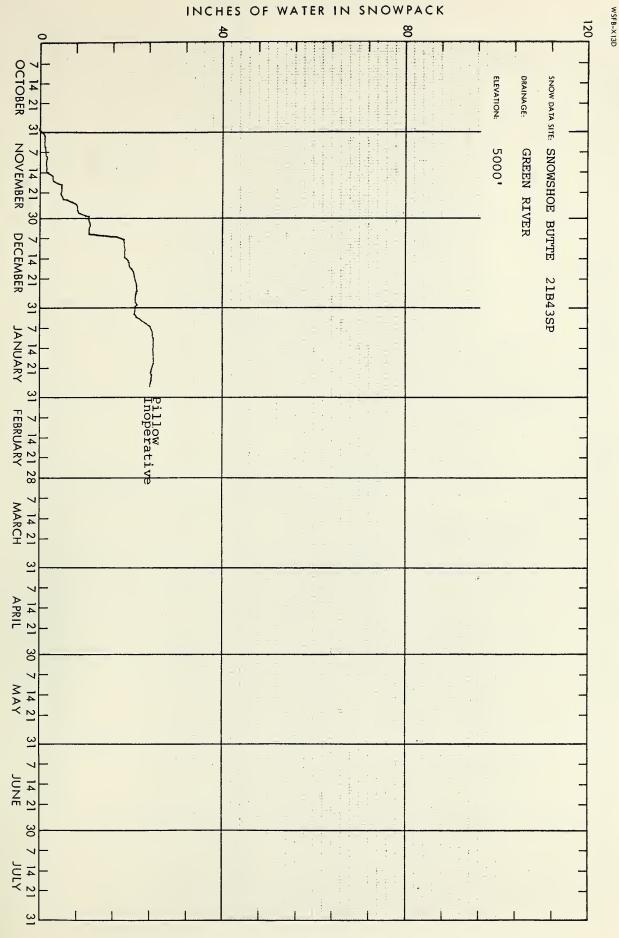
WASHINGTON VALLEY PRECIPITATION

1977 - 1978

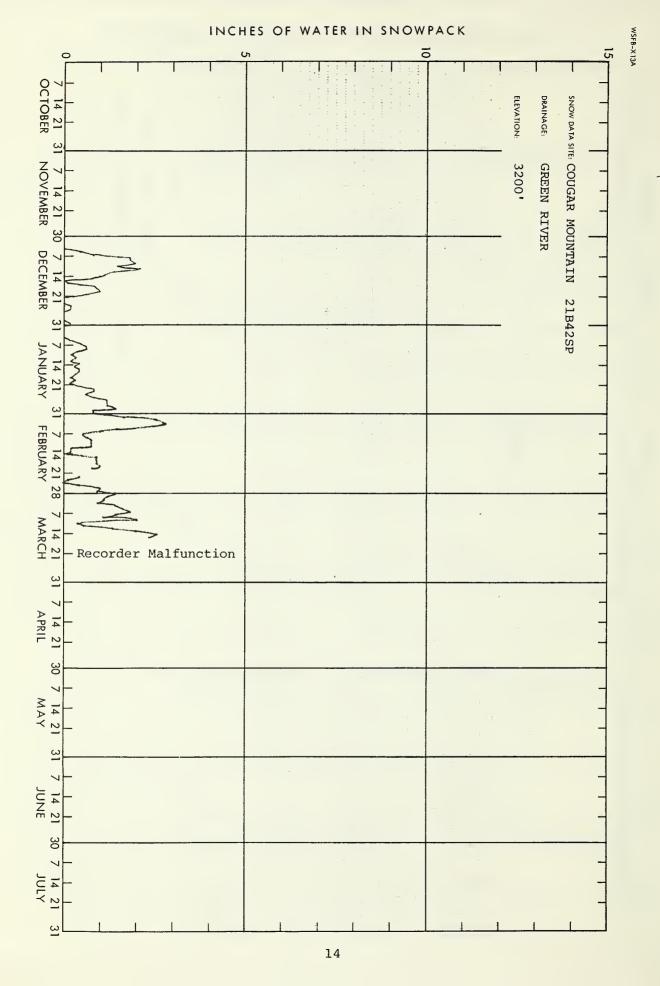
DRAINAGE AREAS



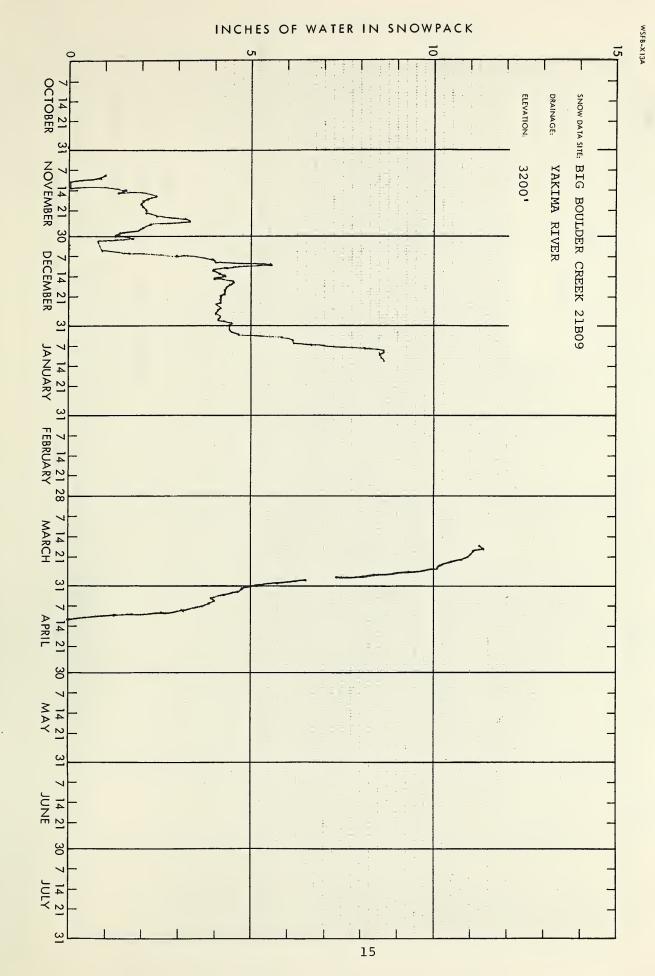
Preliminary Analysis by National Weather Service



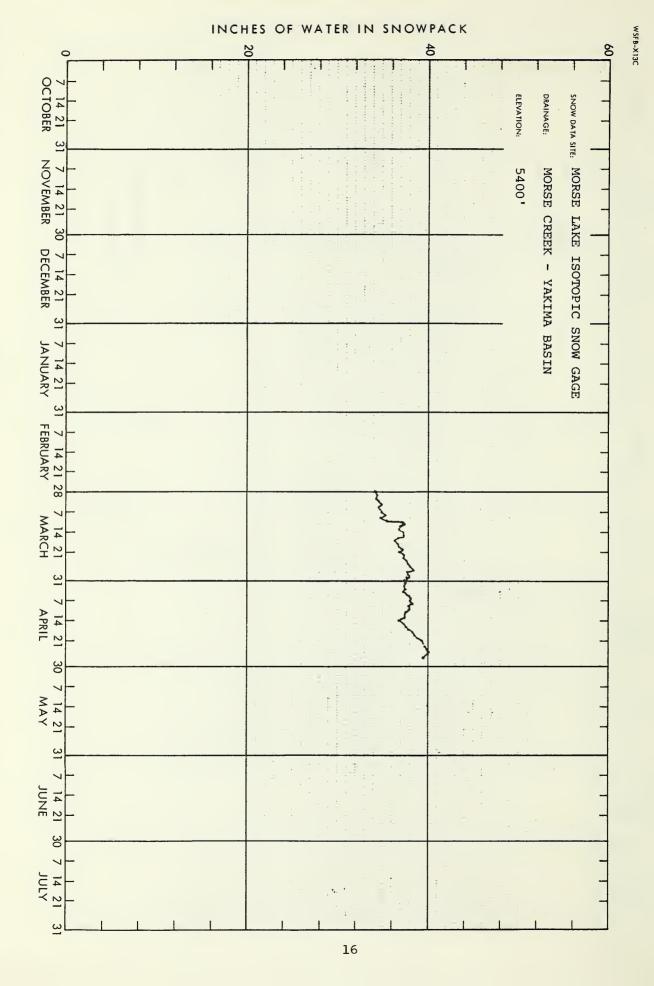
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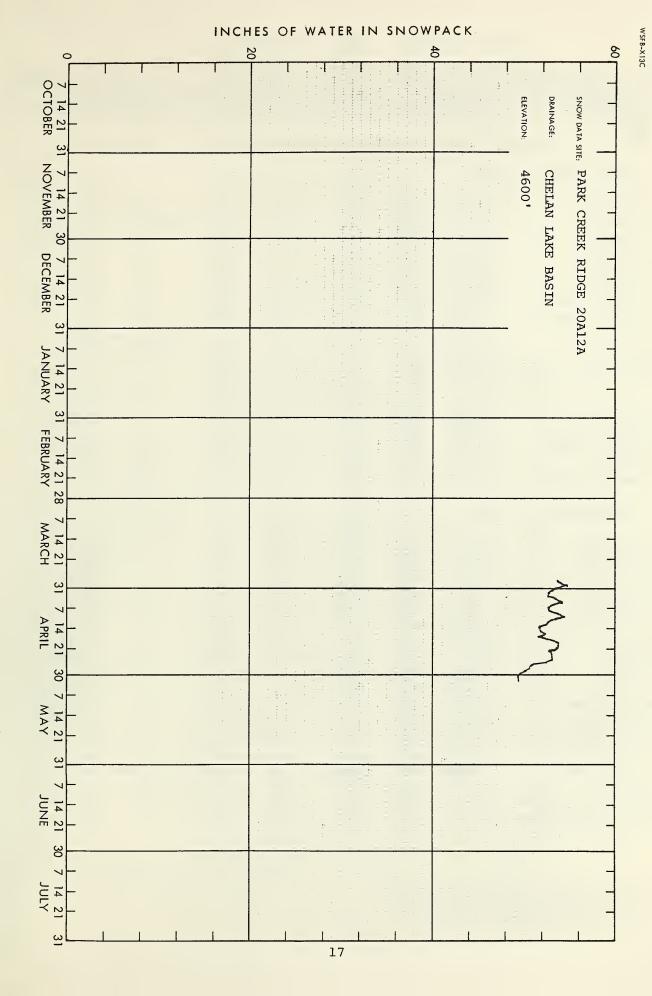


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NOW			THIS YEAR	PAST RECORD			
DRAINAGE BASIN and/or SNOW COURSE			Date	Snow Depth	Water Content	Water Content (inches	
NAME	Number	Elevation	of Survey	(Inches)	(Inches)	Last Year.	Average 1
<u>U P I</u>	PER CO	LUME	3 I A	DRAIN	AGE		
PEND OREILLE RI	IVER						
		5500	E /3		27.0	10.6	
Baree Creek	15B11	5500	5/1	71	37.8	18.6	49.6
Baree Midway	15B16	4600	5/1	43	20.8	11.7	35.1
Baree Trail	15B15	3800	5/1	0 .	0.0	0.0	1.2
Benton Meadow	16A02	2344	4/27	0	0.0	0.0	0.0
Benton Spring	16A03	4900	4/27	24	10.7	0.0	15.7
Boyer Mountain	17A02	5250	4/26	57	27.2	2.1	26.6
Brush Creek Timber	14A13	5000	4/26	10	4.1	0.0	8.2
Bunchgrass Meadow	17A01	5000	4/28	58	28.9	6.5	30.4
Heart Lake Trail	14Cl0	4800	4/22	32	13.3	3.3	19.0
Hoodoo Basin	15C10	6000	4/27	104	52.4	20.6	55.2
Hoodoo Creek	15C01	5900	4/27	95	45.4	18.4	52.2
Lookout	15B02	5250	4/14	69	30.3	15.3	-
			4/28	59	29.6	8.3	37.7
Nelson	19 - Can	3050	4/27	6.3	2.4	1.5	7.4*
Schweitzer Bowl	16A06	4500	4/28	38	17.8	0.0	26.6
Schweitzer Ridge	16A05	6100	4/28	103	51.2	14.5	50.6
Smith Creek	16A01	4800	4/28	83	36.8	15.2	47.9
Winchester Creek	17A03	2970	4/26	1.5	0.7	0.0	1.6
KETTLE RIVER							
Barnes Creek	90-Can	5300	4/27	48	21.4	14.0	21.2*
Big White Mtn.	154-Can	5500	5/1	52	21.7	10.3	21.7*
Bluejoint Mtn.	244-Can	7500	4/27	74	31.4	11.3	32.5*
Boulder Road	18A02	1450	4/24	0	0.0	0.0	0.0
Butte Creek	18A03	4070	4/24	18	6.0	0.0	5.9
Cabin Creek	18A08	3170	4/24	3.2	0.8	0.0	1.5
Carmi	126-Can	4100	5/1	3.1	1.4	0.0	2.1*
Farron # 1	17-Can	4000	4/27	22	9.0	1.2	8.5*
Farron # 2	243-Can	4000	4/27	25	10.2	0.9	9.6*
Goat Creek	18A04	3595	4/24	0	0.0	0.0	0.0
Graystoke Lake	5 - Can	5950	4/24	44	16.9	10.0	23.7
GrayStoke Dake	J-Can	3930	4/20	44	10.9	10.0	23.7

Trapping Creek Lower 166-Can 3050

Trapping Creek Upper 165-Can 4450

4/27

5/1

4/24

4/24

4/24

5/1

5/1

30

0

0

16

12

0

13.1

0.0

5.6

0.0

4.8

Not Measured 0.0

8.0

5.5

0.0

0.0

0.0

0.0

0.0

13.3*

30.9*

0.0

0.0

6.0

0.0*

6.5*

48A-Can 4500

42-Can 7000

18A05 2150

18A06 2720

18A07 4600

Monashee Pass

Summit G.S.

· Old Glory Mountain

Snow Caps Creek

Snow Caps Trail

[#] Average based on 1958-72 average

Average for years of record

SNOW				THIS YEAR		PAST R	RECORD
DRAINAGE BASIN and/or S	NOW COURSE		Date	Snow Depth	Water Content	Water Cont	ent (inches)
NAME	Number	Elevation	of Survey	(Inches)	(Inches)	Last Year	Average #
SPOKANE RIVER							
Above Burke	15B08	6100	5/29	28	13.4	4.7	_
Copper Ridge	16B02	4800	4/27	18	9.2	0.0	27.3
Forty-nine Meadows	15B03	5000	5/2	32	12.8	4.0	30.3
Fourth of July Summit	16B03	3100	4/29	0	0.0	0.0	-
Granite Peak	15B13A	6000	5/2	81	33.0	15.5	48.3
Lookout	15B02	5250	4/14	69	30.3	15.3	-
			4/28	59	29.6	8.3	37.7
Lost Lake	15B14A	6000	5/2	105	44.8	19.3	62.0
Lower Sands Creek	16B01	3400	4/27	20	9.7	7.3	16.0
OKANOGAN RIVER							
Aberdeen Lake	6A-Can	4300	5/1	2.4	0.7	0.0	1.8*
Blackwall Mountain	100-Can	6250	5/1	69	33.9	17.4	38.3*
Bouleau Lake	234-Can	4580	4/30	32	13.1	5.7	14.2*
Brenda Mine	193-Can	4800	4/27	26	11.7	0.0	10.4*
Brookmere	2 7- Can	3200	5/1	11	3.1	1.2	5.9*
Carrs Landing Upper	168-Can	3200	4/29	0	0.0	0.0	0.0*
Enderby	130-Can	6250	4/27	108	46.0	29.9	43.4*
Esperon Creek Lower	164-Can	4400	4/29	21	8.5	0.0	10.6*
Esperon Creek Middle	163-Can	4700	4/29	28	12.6	0.0	13.8*
Esperon Creek Upper	162-Can	5400	4/29	43	18.4	4.7	20.4*
Freezeout Meadows New	20A38	5000	4/25	55	24.5	14.3	31.0
Graystoke Lake	5-Can	5950	4/28	44	16.9	10.0	23.7*
Hamilton Hill	107-Can	4900	4/27	34	16.6	4.6	13.1*
Harts Pass	20A05A	6500	4/25	115	56.1	21.8	50.7
Isintok Lake	152-Can	5510	4/29	22	9.1	0.0	7.5*
Lost Horse Mountain	105-Can	6300	5/1	38	10.4	3.8	10.9*
Loup Loup	19A07	4650	4/28	14	6.4	0.0	-
McCulloch	4-Can	4200	5/1	1.6	0.5	0.0	2.9*
Missezula Mountain	106-Can		4/25	25	11.4	0.0	5.4*
Mission Creek		6000				14.7	
Monashee Pass		4500				8.0	
Mount Kobau	156-Can	5950			16.8		13.7*
Mutton Creek No. 1		5700			15.7		10.9
Mutton Creek No. 2		6000	4/26		17.1	0.0	15.5
Mutton Creek No. 2 SP		6000	4/26	- .	22.2	0.0	-
New Copper Mountain		4300	4/26	0	0.0	0.0	1.8*
New Penticton Res. #2		5225	4/29		9.0	1.4	9.5*
Nickel Plate Mtn.		6200	4/30	37	13.2	2.6	8.0*
Oyama Lake	203-Can	4400	4/28	9.1	3.4	0.0	3.9*
Postill Lake	55 - Can	4500	5/1	13	5.2	2.7	6.9*

[#] Average based on 1958-72 average

^{*} Average for years of record

SNOW				THIS YEAR		PAST R	ECORD
DRAINAGE BASIN and/or S	NOW COURSE		Date	Snow Dapth	Watar Content	Watar Conte	nt (inches)
NAME	Number	Elevation	of Survey	(Inches)	(Inches)	Last Year	Average #
OKANOGAN RIVER (Cont.)						
Quartette Lake	34-Can	4000	4/26	20	9.1	4.1	11.6*
Rusty Creek	19A03	4000	4/27	2.2	0.7	0.0	0.6
Salmon Meadows	19A02	4500	4/26	18	6.6	0.0	5.4
Silver Star Mountain	99-Can	6050	4/30	77	36.3	14.6	28.2*
Summerland Reservoir	3A-Can	4200	4/30	16	6.7	0.0	6.9*
Trout Creek	3-Can	4700	4/28	15	5.7	0.2	5.3*
Vaseux Creek	233-Can	4600	4/28	10	3.6	0.0	2.8*
White Rocks Mountain	70-Can	6000	4/29	63	26.5	6.9	_
white Rocks Mountain	70-Can	6000	4/2/	63	26.5	6.9	27.9*
METHOW RIVER							
Harts Pass	20A05A	6500	4/25	115	56.1	21.8	50.7
Loup Loup	19A07	4650	4/28	14	6.4	0.0	_
Mutton Creek No. 1	19A01	5700	4/26	40	15.7	0.0	10.9
Mutton Creek No. 2	19A04	6000	4/26	49	17.1	0.0	15.6
Mutton Creek No. 2 SP		6000	4/26	_	22.2	0.0	
Rusty Creek	19A03	4000	4/27	2.2	0.7	0.0	0.6
Salmon Meadows	19A02	4500	4/26	18	6.6	0.0	5.4
CHELAN LAKE BASI	N						
Rainy Pass	20A09	4780	4/25	93	46.8	21.8	44.3
ENTIAT RIVER							
Blue Creek G.S.	20B28a	5425	4/28	84	42.8	11.9	New
Brief	20B19	1600	4/25	0		0.0	0.0
Entiat Meadows +	20A33a	4540	4/28	78	36.7	9.9	41.0
Entiat River Trail +	20A34a	3325	4/28	24	11.3	0.0	9.7
Four Mile Ridge +	20B27a	6800	4/28	94	47.9	4.0	- -
Fox Camp +	20B27a 20A36a	6510	4/28	154	78.5	19.5	63.5
Pope Ridge	20B20	3540	4/28	22	10.2	0.0	8.2
Pugh Ridge +	20B20 20A32a	6725	4/28	87	44.4	11.2	38.7
_	20A32a 20A37	6200	4/28	75	38.2	2.2	30.7
Shady Pass	20A37 20A35a	3910		75 69	38.2	6.9	
Snow Brushy +	20A35a 20B21a	4900	4/28	52	26.5	0.0	30.8 22.5
Tommy Creek +	20 B 21 a	4900	4/28	52	20.5	0.0	22.5

[#] Average based on 1958-72 average

^{*} Average for years of record

⁺ Snow water equivalent estimated from aerial stadia observation

Name Number Elevation Or Survey Startery Clinches) Last Year Average				1				ECORD
WENATCHEE RIVER Berne-Mill Creek 21B23 2925 4/27 37 17.9 6.0 21.1	DRAINAGE BASIN and/or SNOW COURSE		Date			Water Content (inches)		
Berne-Mill Creek 21B23 2925 4/27 37 17.9 6.0 21.1 Berne-Mill Creek New 21B41SP 3240 4/27 14 7.0 0.0 17.7 Blewett Pass No. 2 20B02 4270 4/13 20 9.2 2.2 13.0 Chiwaukum G.S. 20B16 1810 4/27 0 0.0 0.0 1.8 Fish Lake 21B04 3371 5/1 Not Measured 2.0 26.7 Lake Wenatchee 20B05 1970 4/27 2.7 1.1 0.0 1.6 Leavenworth R.S. 20B17 1127 4/27 0 0.0 0.0 0.0 3.8 Stevens Pass 21B01 4070 4/12 94 43.3 25.6 55.2 Stevens Pass Sand Shed 21B45 3700 4/12 94 43.3 25.6 55.2 Stevens Pass Sand Shed 21B45 3700 4/12 60 28.7 12.2 - SQUILCHUCK CREEK Beehive Springs 20B03 4400 4/28 3.4 1.5 0.0 1.7 SCOUT-A-Vista 20B04 3400 4/28 3.4 1.5 0.0 0.4 STEMILT CREEK Jump-Off 20B08 4450 4/28 13 5.2 0.0 2.8 Stemilt Slide 20B06 5000 4/27 16 7.4 0.0 7.1	NAME	Number	Elevation	of Survey	(Inches)	(Inches)	Last Year	Average #
Berne-Mill Creek New 21B41SP 3240 4/27 14 7.0 0.0 17.7 Blewett Pass No. 2 20B02 4270 4/13 20 9.2 2.2 13.0 4/25 14 6.8 0.0 9.5 Chiwaukum G.S. 20B16 1810 4/27 0 0.0 0.0 1.8 Fish Lake 21B04 3371 5/1 Not Measured 2.0 26.7 Lake Wenatchee 20B05 1970 4/27 2.7 1.1 0.0 1.6 Leavenworth R.S. 20B17 1127 4/27 0 0.0 0.0 0.0 Merritt 20B18 2140 4/27 0 0.0 0.0 3.8 Stevens Pass 21B01 4070 4/12 94 43.3 25.6 55.2 Stevens Pass Sand Shed 21B45 3700 4/12 94 43.3 25.6 55.2 Stevens Pass Sand Shed 21B45 3700 4/12 60 28.7 12.2 - SQUILCHUCK CREEK Beehive Springs 20B03 4400 4/28 3.4 1.5 0.0 1.7 SCOUT A-Vista 20B04 3400 4/28 0 0.0 0.0 0.4 STEMILT CREEK Jump-Off 20B08 4450 4/28 13 5.2 0.0 2.8 Stemilt Slide 20B06 5000 4/27 16 7.4 0.0 7.1	WENATCHEE RIVER							
Berne-Mill Creek New 21B41SP 3240 4/27 14 7.0 0.0 17.7 Blewett Pass No. 2 20B02 4270 4/13 20 9.2 2.2 13.0 4/25 14 6.8 0.0 9.5 Chiwaukum G.S. 20B16 1810 4/27 0 0.0 0.0 1.8 Fish Lake 21B04 3371 5/1 Not Measured 2.0 26.7 Lake Wenatchee 20B05 1970 4/27 2.7 1.1 0.0 1.6 Leavenworth R.S. 20B17 1127 4/27 0 0.0 0.0 0.0 Merritt 20B18 2140 4/27 0 0.0 0.0 0.0 Stevens Pass 21B01 4070 4/12 94 43.3 25.6 55.2 4/27 92 45.5 22.9 55.8 Stevens Pass Sand Shed 21B45 3700 4/12 60 28.7 12.2 - 4/27 51 25.2 7.6 - SQUILCHUCK CREEK Beehive Springs 20B03 4400 4/28 3.4 1.5 0.0 1.7 SCOUT-A-Vista 20B04 3400 4/28 3.4 1.5 0.0 0.0 STEMILT CREEK Jump-Off 20B08 4450 4/28 13 5.2 0.0 2.8 Stemilt Slide 20B06 5000 4/27 16 7.4 0.0 7.1	Berne-Mill Creek	21B23	2925	4/27	37	17.9	6.0	21.1
Blewett Pass No. 2 20B02 4270 4/13 20 9.2 2.2 13.0 4/25 14 6.8 0.0 9.5 14 6.8 0.0 9.5 14 6.8 0.0 9.5 14 6.8 0.0 9.5 14 6.8 0.0 9.5 14 6.8 0.0 9.5 14 6.8 0.0 9.5 14 6.8 0.0 9.5 14 6.8 0.0 9.5 14 6.8 0.0 9.5 14 6.8 0.0 9.5 14 6.8 0.0 9.5 14 6.8 0.0 9.5 14 6.8 0.0 9.5 14 6.8 0.0 9.5 14 6.8 0.0 9.5 14 6.8 0.0 9.5 14 6.8 0.0 9.5 14 6.8 0.0 9.5 14 6.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0					14	7.0		17.7
Chiwaukum G.S. 20B16 1810 4/27 0 0.0 0.0 1.8 Fish Lake 21B04 3371 5/1 Not Measured 2.0 26.7 Lake Wenatchee 20B05 1970 4/27 2.7 1.1 0.0 1.6 Leavenworth R.S. 20B17 1127 4/27 0 0.0 0.0 0.0 0.0 Merritt 20B18 2140 4/27 0 0.0 0.0 0.0 3.8 Stevens Pass 21B01 4070 4/12 94 43.3 25.6 55.2 4/27 92 45.5 22.9 55.8 Stevens Pass Sand Shed 21B45 3700 4/12 60 28.7 12.2 - 4/27 51 25.2 7.6 - SQUILCHUCK CREEK Beehive Springs 20B03 4400 4/28 3.4 1.5 0.0 1.7 Scout-A-Vista 20B04 3400 4/28 0 0.0 0.0 0.0 0.4 STEMILT CREEK Jump-Off 20B08 4450 4/28 13 5.2 0.0 2.8 Stemilt Slide 20B06 5000 4/27 16 7.4 0.0 7.1		20B02	4270		20	9.2	2.2	13.0
Fish Lake 21B04 3371 5/1 Not Measured 2.0 26.7 Lake Wenatchee 20B05 1970 4/27 2.7 1.1 0.0 1.6 Leavenworth R.S. 20B17 1127 4/27 0 0.0 0.0 0.0 Merritt 20B18 2140 4/27 0 0.0 0.0 0.0 3.8 Stevens Pass 21B01 4070 4/12 94 43.3 25.6 55.2 4/27 92 45.5 22.9 55.8 Stevens Pass Sand Shed 21B45 3700 4/12 60 28.7 12.2 - 4/27 51 25.2 7.6 - SQUILCHUCK CREEK Beehive Springs 20B03 4400 4/28 3.4 1.5 0.0 1.7 Scout-A-Vista 20B04 3400 4/28 0 0.0 0.0 0.0 STEMILT CREEK Jump-Off 20B08 4450 4/28 13 5.2 0.0 2.8 Stemilt Slide 20B06 5000 4/27 16 7.4 0.0 7.1				4/25	14	6.8	0.0	9.5
Lake Wenatchee 20B05 1970 4/27 2.7 1.1 0.0 1.6 Leavenworth R.S. 20B17 1127 4/27 0 0.0 0.0 0.0 0.0 Merritt 20B18 2140 4/27 0 0.0 0.0 0.0 3.8 Stevens Pass 21B01 4070 4/12 94 43.3 25.6 55.2 4/27 92 45.5 22.9 55.8 Stevens Pass Sand Shed 21B45 3700 4/12 60 28.7 12.2 - 4/27 51 25.2 7.6 - SQUILCHUCK CREEK Beehive Springs 20B03 4400 4/28 3.4 1.5 0.0 1.7 Scout-A-Vista 20B04 3400 4/28 0 0.0 0.0 0.0 0.4 STEMILT CREEK Jump-Off 20B08 4450 4/28 13 5.2 0.0 2.8 Stemilt Slide 20B06 5000 4/27 16 7.4 0.0 7.1	Chiwaukum G.S.	20B16	1810	4/27	0	0.0	0.0	1.8
Leavenworth R.S. 20B17 1127 4/27 0 0.0 0.0 0.0 0.0 Merritt 20B18 2140 4/27 0 0.0 0.0 0.0 3.8 Stevens Pass 21B01 4070 4/12 94 43.3 25.6 55.2 4/27 92 45.5 22.9 55.8 Stevens Pass Sand Shed 21B45 3700 4/12 60 28.7 12.2 - 4/27 51 25.2 7.6 - SQUILCHUCK CREEK Beehive Springs 20B03 4400 4/28 3.4 1.5 0.0 1.7 Scout-A-Vista 20B04 3400 4/28 0 0.0 0.0 0.0 0.4 STEMILT CREEK Jump-Off 20B08 4450 4/28 13 5.2 0.0 2.8 Stemilt Slide 20B06 5000 4/27 16 7.4 0.0 7.1	ish Lake	21B04	3371	5/1	Not Me	easured	2.0	26.7
Merritt 20B18 2140 4/27 0 0.0 0.0 3.8 Stevens Pass 21B01 4070 4/12 94 43.3 25.6 55.2 4/27 92 45.5 22.9 55.8 Stevens Pass Sand Shed 21B45 3700 4/12 60 28.7 12.2 - 4/27 51 25.2 7.6 - SQUILCHUCK CREEK Beehive Springs 20B03 4400 4/28 3.4 1.5 0.0 1.7 Scout-A-Vista 20B04 3400 4/28 0 0.0 0.0 0.4 STEMILT CREEK Jump-Off 20B08 4450 4/28 13 5.2 0.0 2.8 Stemilt Slide 20B06 5000 4/27 16 7.4 0.0 7.1	ake Wenatchee	20B05	1970	4/27	2.7	1.1	0.0	1.6
Stevens Pass 21B01 4070 4/12 94 43.3 25.6 55.2 4/27 92 45.5 22.9 55.8 4/27 92 45.5 22.9 55.8 55.8 55.2 4/27 92 45.5 22.9 55.8 55.8 55.2 4/27 51 25.2 7.6 - Stevens Pass Sand Shed 21B45 3700 4/12 60 28.7 12.2 - 4/27 51 25.2 7.6 - SQUILCHUCK CREEK Beehive Springs 20B03 4400 4/28 3.4 1.5 0.0 1.7 55.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.	Leavenworth R.S.	20B17	1127	4/27	0	0.0	0.0	0.0
Stevens Pass Sand Shed 21B45 3700 4/27 92 45.5 22.9 55.8 4/27 51 25.2 7.6 - 4/27 51 25.2 7.6 - 4/27 51 25.2 7.6 - 4/27 51 25.2 7.6 - 4/27 51 25.2 7.6 - 4/28 3.4 1.5 0.0 1.7 5.5 5.8	Merritt	20B18	2140	4/27	0	0.0	0.0	3.8
Stevens Pass Sand Shed 21B45 3700 4/12 60 28.7 12.2 - 4/27 51 25.2 7.6 - SQUILCHUCK CREEK Beehive Springs 20B03 4400 4/28 3.4 1.5 0.0 1.7 Scout-A-Vista 20B04 3400 4/28 0 0.0 0.0 0.4 STEMILT CREEK Jump-Off 20B08 4450 4/28 13 5.2 0.0 2.8 Stemilt Slide 20B06 5000 4/27 16 7.4 0.0 7.1	Stevens Pass	21B01	4070	4/12	94	43.3	25.6	55.2
4/27 51 25.2 7.6 - SQUILCHUCK CREEK Beehive Springs 20B03 4400 4/28 3.4 1.5 0.0 1.7 Scout-A-Vista 20B04 3400 4/28 0 0.0 0.0 0.4 STEMILT CREEK Jump-Off 20B08 4450 4/28 13 5.2 0.0 2.8 Stemilt Slide 20B06 5000 4/27 16 7.4 0.0 7.1				•	92	45.5	22.9	55.8
SQUILCHUCK CREEK Beehive Springs 20B03 4400 4/28 3.4 1.5 0.0 1.7 Scout-A-Vista 20B04 3400 4/28 0 0.0 0.0 0.4 STEMILT CREEK Jump-Off 20B08 4450 4/28 13 5.2 0.0 2.8 Stemilt Slide 20B06 5000 4/27 16 7.4 0.0 7.1	Stevens Pass Sand Shed	1 21B45	3700	•	60		12.2	-
Beehive Springs 20B03 4400 4/28 3.4 1.5 0.0 1.7 Scout-A-Vista 20B04 3400 4/28 0 0.0 0.0 0.4 STEMILT CREEK Jump-Off 20B08 4450 4/28 13 5.2 0.0 2.8 Stemilt Slide 20B06 5000 4/27 16 7.4 0.0 7.1				4/27	51	25.2	7.6	-
Scout-A-Vista 20B04 3400 4/28 0 0.0 0.0 0.4 STEMILT CREEK Jump-Off 20B08 4450 4/28 13 5.2 0.0 2.8 Stemilt Slide 20B06 5000 4/27 16 7.4 0.0 7.1	SQUILCHUCK CREEK							
Scout-A-Vista 20B04 3400 4/28 0 0.0 0.0 0.4 STEMILT CREEK Jump-Off 20B08 4450 4/28 13 5.2 0.0 2.8 Stemilt Slide 20B06 5000 4/27 16 7.4 0.0 7.1	Beehive Springs	20B03	4400	4/28	3.4	1.5	0.0	1.7
Jump-Off 20B08 4450 4/28 13 5.2 0.0 2.8 Stemilt Slide 20B06 5000 4/27 16 7.4 0.0 7.1		20B04	3400	4/28	0	0.0	0.0	0.4
	Jump-Off Stemilt Slide	20B06	5000	4/27	16	7.4	0.0	2.8 7.1 1.0
COLOCKUM CREEK								
Colockum Creek Upper 20B22 5300 4/28 20 10.0 0.0 -				-				-
Colockum Creek Lower 20B23 4300 4/28 3.5 1.5 0.0 -						_		-
Trough # 2 20B25SP 5310 4/28 30 15.0 0.0 - YAKIMA RIVER		20B25SP	5310	4/28	30	15.0	0.0	-
Big Boulder Creek 21B09 3200 4/28 0 0.0 0.0 7.4	ig Boulder Creek	21B09	3200	4/28	0	0.0	0.0	7.4
Blewett Pass No. 2 20B02 4270 4/13 20 9.2 2.2 13.0	Blewett Pass No. 2	20B02	4270	4/13	20	9.2	2.2	13.0
4/25 14 6.8 0.0 9.5				4/25	14	6.8	0.0	9.5
	Sumping Lake	21C08	3450		14	6.0	0.0	13.4
					7	3.1	0.0	9.4
Bumping Lake New 21C36 3400 4/13 22 9.1 0.0 -	Sumping Lake New	21C36	3400		22		0.0	-
· · · · · · · · · · · · · · · · · · ·					15	6.9	0.0	15.0
Cayuse Pass 21C06 5300 5/2 155 70.9 43.4 -		21C06	5300		155	70.9		-
Corral Pass 21B13 6000 4/28 71 33.5 15.6 -					71	33.5		-
Fish Lake 21B04 3371 5/1 Not Measured 2.0 26.7	'ish Lake	21B04	3371	5/1	Not Me	easured	2.0	26.7

[#] Average based on 1958-72 average

SNOW				THIS YEAR		PAST RE	CORD
DRAINAGE BASIN and/or SN	OW COURSE		Date	Snow Depth	Water Content	Water Conter	
NAME	Number	Elevation	of Survey	(Inches)	(Inches)	Last Year ·	Average #
YAKIMA RIVER (Con	<u>t.</u>)						
Joe Lake +	21B46a	4624	4/29	130	62.4	40.0	_
Lake Cle Elum	21B14M	2200	4/27	0	0.0	0.0	0.0
Lemah Creek +	21B47a	3327	4/29	12	5.8	14.0	-
Morse Lake	21C17	5400	4/28	103	51.2	18.0	65.1
Olallie Meadows	21B02	3625	4/12	51	23.4	20.2	48.4
			5/1	41	20.9	15.9	48.6
Satus Pass	20D01	4030	4/28	0	0.0	_	1.9
Stampede Pass SP	21B10	3860	4/13	55	28.4	12.0	43.4
			4/27	48	25.2	6.9	43.4
Tunnel Avenue	21B08	2450	4/13	19	7.3	0.0	20.1
			4/27	0	0.0	0.0	16.0
Van Epps Pass +	20B26a	5925	4/29	98	47.0	21.8	-
Waptus Lake +	21B49a	3024	4/29	33	15.8	12.9	-
White Pass (E. Side)	21C28	4500	4/13	38	16.9	6.3	26.0
			4/27	37	16.5	0.0	25.9
LOWE	R CO	LUME	IA I	RAIN	AGE		
ASOTIN CREEK							
Spruce Springs	17C04	5700	4/24	35	16.1	1.8	25.8
MILL CREEK							
Tollgate	18D3M	5070	4/25	24	11.2	0.0	18.9
KLICKITAT RIVER							
Satus Pass	20D01	4030	4/28	0	0.0	-	1.9
WHITE SALMON RIVE	R						
Cultus Creek	21C12	4000	4/25	87	39.9	18.3	48.9
Surprise Lakes	21C13A	4250	4/25	78	35.3	13.2	52.9
WIND RIVER							
			=	_			
Old Man Pass	21D19	3100	4/25	0	0.0	0.0	12.6
LEWIS RIVER							
Blue Lake +	21C22a	4800	4/25	180	82.2	39.1	92.4
Bob's Trail	21C21	2200	4/25	0	0.0	0.0	, 7.8
Calamity Ridge +	22D01a	2500	4/25	0	0.0	0.0	1.3

[#] Average based on 1958-72 average

⁺ Snow water equivalent estimated from aerial stadia observation

SNOW			THIS YEAR		PAST RECORD		
DRAINAGE BASIN and/or SNOW COURSE		Date S	Snow Depth	Water Content	Water Content (inches)		
NAME	Number	Elevation	of Survey	(Inches)	(Inches)	Last Year	Average 1
LEWIS RIVER (Cont	<u>t.</u>)						
Council Pass +	21C18a	4200	4/25	50	23.0	13.5	38.8
Cultus Creek	21C12	4000	4/25	87	39.9	18.3	48.9
Divide Meadow +	21C29a	5600	4/25	106	49.8	21.6	65.5
Grand Meadow	21C25	3500	4/25	11	3.9	0.0	22.4
Lone Pine Shelter	21C26	3800	4/25	58	23.1	15.9	46.3
Marble Mountain +	22C05a	3200	4/25	10	4.9	4.9	33.2
New Muddy River	22C06	2000	4/25	0	0.0	0.0	0.8
Old Man Pass	21D19	3100	4/25	0	0.0	0.0	12.6
Plains of Abraham +	22C01a	4400	4/25	156	76.4	32.9	76.9
Smith Creek Road	22C04	2100	4/25	0	0.0	0.0	5.3
Spencer Meadow +	21C20a	3400	4/25	3	0.9	5.4	16.1
Surprise Lakes	21C13A	4250	4/25	78	35.3	13.2	52.9
Table Mountain +	21C24a	4200	4/25	82	36.9	16.2	40.3
Timbered Peak +	21D18a	3000	4/25	0	0.0	1.8	9.9
COWLITZ RIVER							
Cayuse Pass	21C06	5300	5/2	155	70.9	43.4	_
Plains of Abraham +	22C01a	4400	4/25	156	76.4	32.9	76.9
White Pass (E. Side)	21C28	4500	4/13	38	16.9	6.3	26.0
,			4/27	37	16.5	0.0	25.9
P U (GET S	OUNI	D DRZ	AINA	G E		
WHITE RIVER							
Cayuse Pass	21C06	5300	5/2	155	70.9	43.4	_
Corral Pass	21B13	6000	4/28	71	33.5	15.6	
Morse Lake	21C17	5400	4/28	103	51.2	18.0	65.1
GREEN RIVER							
Cougar Mountain SP	21B42SP	3200	5/1	0	0.0	_	_
Snowshoe Butte SP	21B43SP		5/1	85	40.2	21.1	_
Stampede Pass SP	21B4331 21B10	3860	4/13	55	28.4	12.0	43.4
scampede rass sr	21610	3600	4/13	48	25.2	6.9	43.4
SNOQUALMIE RIVER							
Olallie Meadows	21B02	3625	4/12 5/1	51 41	23.4 20.9	20.2 15.9	48.4 48.6
SKYKOMISH RIVER							
Stevens Pass	21B01	4070	4/12	94	43.3	25.6	55.2
			4/27	92	45.5	22.9	55.8
Character Daniel Care 1 Char	21D/E	2700	4 /1 2	60	20.7	12.2	
Stevens Pass Sand Shed	d 21B45	3700	4/12	60	28.7	12.2	-

[#] Average based on 1958-72 average

⁺ Snow water equivalent estimated from aerial stadia observation.

DRAINAGE BASIN and/or SNOW COURSE			THIS YEAR			PAST RECORD		
			Date	Snow Depth	Water Content			
NAME	Number	Elevation	of Survey	(Inches)	(Inches)	Last Year	Average #	
SKAGIT RIVER								
Beaver Creek Trail	21A04	2200	4/25	0	0.0	0.0	4.8	
Beaver Pass	21A01	3680	4/25	39	17.2	6.6	34.0	
Brown Top +	21A28a	6000	4/25	109	50.9	31.0	-	
Devils Park	20A04A	5900	4/25	96	45.4	22.1	49.5	
Freezeout Cr. Trail	20A01	3500	4/25	4.3	1.7	0.4	8.2	
Freezeout Meadows New	20A38	5000	4/25	55	24.5	14.4	31.0	
Granite Creek	21A29	3500	4/25	12	5.1	2.4	-	
Harts Pass	20A05A	6500	4/25	115	56.1	21.8	50.7	
Klesilkwa	35B-Can	3700	5/1	0	0.0	0.0	10.2*	
Meadow Cabins	20A08	1900	4/25	0	0.0	0.0	1.3	
New Hozomeen Lake	21A30	2800	4/25	0	0.0	0.0	_	
New Tashme	26A - Can	2500	4/25	0	0.0	0.0	4.7*	
Quartette Lake	34-Can	4000	4/26	20	9.1	4.1	11.6*	
Rainy Pass	20A09	4780	4/25	93	46.8	21.8	44.3	
Thunder Basin	20A07	4200	4/25	45	18.9	10.5	25.5	
BAKER RIVER								
Baker Pass +	21A27a	4900	5/1	Marker	Missing	45.4	_	
Dock Butte	21 A11A	3800	4/26	96	46.7	35.0	77.4	
Easy Pass	21A07A	5200	4/26	181	85.8	42.2	93.3	
Jasper Pass	21A06A	5400	4/25	172	79.8	48.9	102.7	
Komo Kulshan	21A17	800	4/26	0	0.0	0.0	0.7	
Marten Lake	21A09A	3600	4/27	112	52.8	43.7	83.8	
Mount Blum +	21A18a	5800	4/26	148	69.6	40.3	-	
Panorama New	21A26	4300	4/15	107	52.2	36.3	-	
			4/30	89	44.3	35.2	-	
Rocky Creek	21A12A	2100	4/26	0	0.0	8.8	22.6	
Schreibers Meadow	21A10A	3400	4/26	80	37.0	32.4	67.5	
S. F. Thunder Creek	21A14A	2200	4/26	0	0.0	0.0	1.1	
Sulphur Creek	21A13	1600	4/26	0	0.0	0.0	6.4	
Three Mile Creek	21A15	1600	4/26	0	0.0	0.0	0.0	
Watson Lakes	21A08A	4500	4/26	107	50.8	35.7	76.9	
NOOKSACK RIVER								
Panorama New	21A26	4300	4/15	107	52.2	36.3	-	
			4/30	89	44.3	35.2	-	

[#] Average based on 1958-72 average

^{*} Average for years of record

⁺ Snow water equivalent estimated from aerial stadia observation

WSFB-X4-L

SNOW				THIS YEAR		PAST R	ECORD
DRAINAGE BASIN and/or SNOW COURSE		Date Snow Depth		Water Content	Water Content (inches)		
NAME	Number	Elevation	of Survey	(Inches)	(Inches)	Last Year	Average #
	O L Y M P	IC P	ENIN	SULA			
DUNGENESS RIVE	<u>R</u>						
Deer Park	23B04	5200	4/28	30	12.2	7.8	24.2
MORSE CREEK							
Cox Valley	23B14	4500	4/26	71	30.5	16.5	-
ELWHA RIVER							
Hurricane	23B03	4500	4/26	31	13.2	8.5	26.9



Agencies Assisting with Snow Surveys

GOVERNMENT AGENCIES

Canada:

Ministry of the Environment, Water Investigations Branch, Victoria, British Columbia

States:

Washington State Department of Ecology Washington State Department of Natural Resources

Federal:

Department of the Army
Corps of Engineers
U. S. Department of Agriculture

Forest Service

U. S. Department of Commerce NOAA, National Weather Service

U. S. Department of the Interior
Bonneville Power Administration
Bureau of Reclamation
Geological Survey
National Park Service

PUBLIC AND PRIVATE UTILITIES

Chelan County P.U.D.
Pacific Power and Light Company
Puget Sound Power and Light Company
Washington Water Power Company

OTHER PUBLIC AGENCIES

Okanogan Irrigation District Wenatchee Heights Irrigation District

MUNICIPALITIES

City of Tacoma City of Seattle

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domestic and municipal water supply, hydro-electric power water supply for irrigation, necessary for forecasting generation, navigation, Furnishes the basic data mining and industry "The Conservation of Water begins with the Snow Survey"